

Reg. No.: .....

**Second Year BDS Degree Supplementary Examinations January 2019****Dental Materials  
(2010 Scheme)****Time: 3 hrs****Max marks: 100**

- Answer all questions
- Write section A and section B in separate answer books (32 Pages).  
Do not mix up questions from section A and section B.

**Q P Code: 204002 Section A – Prosthodontics****Marks: 50****Essay****(14)**

1. Classify investment materials. Describe in detail gypsum bonded investment. (2+12)

**Short essays****(2x8=16)**

2. Irreversible impression materials.
3. Requisites for dental resins and composition, manipulation and processing of the heat cure acrylic resin.

**Short notes****(5x4=20)**

4. Accelerators and retarders in gypsum products
5. Manipulation of agar-agar
6. Hardness tests
7. Biocompatibility of dental materials.
8. Tissue conditioners.

**Q P Code: 205002 Section B – Conservative Dentistry****Marks: 50****Essay****(14)**

1. What are adhesive cements. Describe the composition, manipulation and uses of type I glass ionomer cement. (4+4+6)

**Short essays****(2x8=16)**

2. Setting reactions of different types of amalgams.
3. Define and classify composites and discuss the properties of hybrid composites in detail. (2+6)

**Short notes****(5x4=20)**

4. Copy milling
5. Flow in inlay wax
6. Tarnish and corrosion
7. Eutectic alloys
8. Rake angle

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